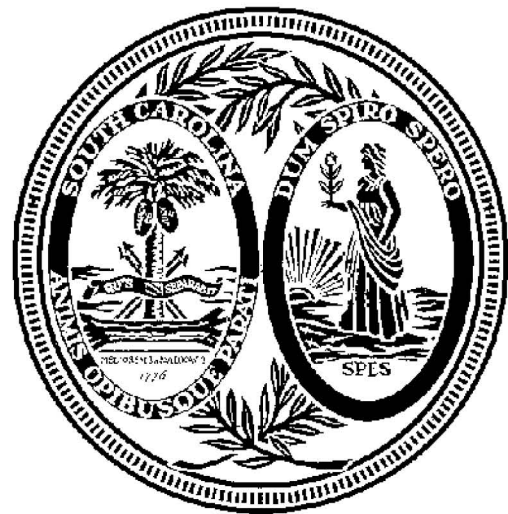


Orangeburg County Base Labor Market Analysis



South Carolina
Department of
Commerce
Labor Market Information

TABLE OF CONTENTS

EXECUTIVE SUMMARY	5
POPULATION	6
Growth.....	6
Age.....	6
Migration.....	7
LABORSHED.....	8
Characteristics of Workers	8
INCOME	10
Per Capita Income	10
Wages by Industry	12
Wages by Occupation	13
EDUCATION	14
High School Graduates.....	14
Educational Attainment.....	15
Higher Education Graduates.....	16
OCCUPATIONS.....	17
Occupational Projections.....	17
Occupational Education Requirements.....	18
INDUSTRY	19
Businesses by Sector.....	19
Growth in Number of Businesses	20
Employment by Sector	21
Competitive Industries	22
MOVING FORWARD.....	24
Appendix A: Occupational Projections	
Appendix B: Businesses by 3-digit NAICS Codes	
Appendix C: Employment by Industry Sector	

EXECUTIVE SUMMARY

Population

Orangeburg County has a young population.

The highest percentages of population are found in the youngest age groups.

Orangeburg County population is projected to grow.

Growth is predicted to be consistent with South Carolina growth until 2035.

Orangeburg County attracts workers from a wide area beyond its borders.

Only 62% of workers live in Orangeburg County, with significant numbers living outside the county.

Income

Per capita income growth has risen consistently over the past ten years.

In fact, Orangeburg County's per capita income growth has exceeded both South Carolina's and the nation's.

Orangeburg County wages are generally below the state average.

Education

The level of educational attainment of Orangeburg County's population is below the state's.

Over half of Orangeburg County's adult population have no more than a high school education.

The number of degrees awarded by area post-secondary institutions has increased.

The greatest increase has been in the areas of health, liberal arts and sciences, and mechanics and repair.

Occupations

These occupational groups are expected to have faster growth in Orangeburg County than in the state:

Food preparation & serving-related, production, and transportation & material-moving.

Requirements for Orangeburg County's workers are expected to grow in the following levels of education and experience:

Moderate-term on-the-job training, associate degree, bachelor's degree, and master's degree or higher.

Industry

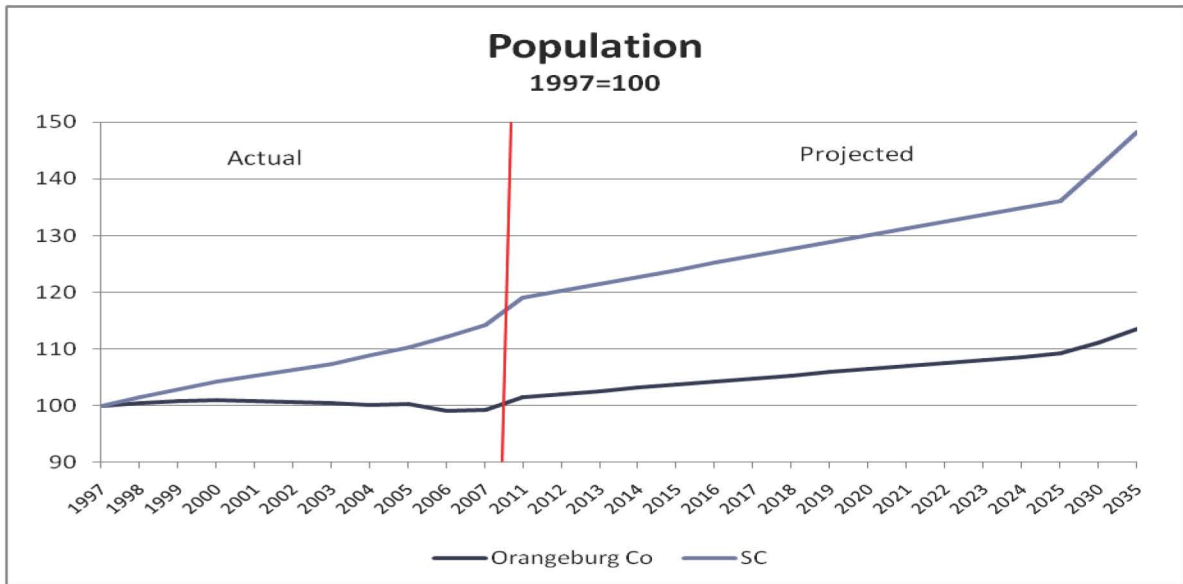
Sectors rated as having the highest potential in Orangeburg County are as follows:

Fabricated metal product manufacturing, truck transportation, nonmetallic mineral product manufacturing, ambulatory health care services, food manufacturing, wholesale, warehousing.

POPULATION

Growth

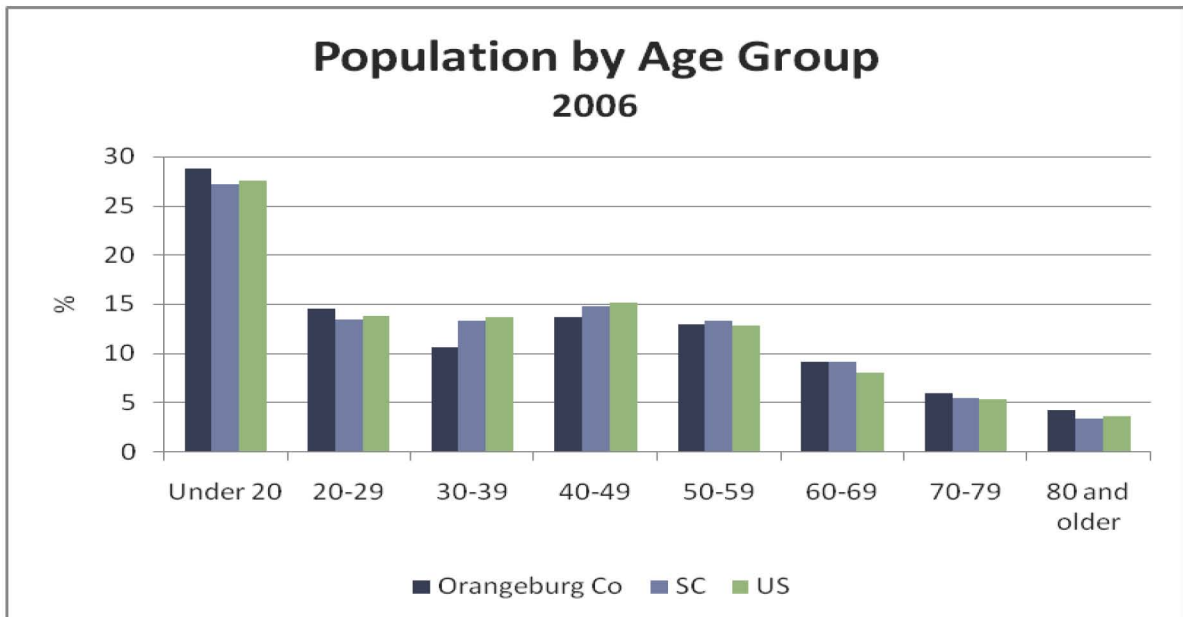
Orangeburg County's 2007 population was 89,952. The county population has lost 0.7% of population since 1997, while South Carolina's population has grown by 14%.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

Age

Orangeburg County has a higher percentage of its population in the younger age groups than South Carolina or the nation.



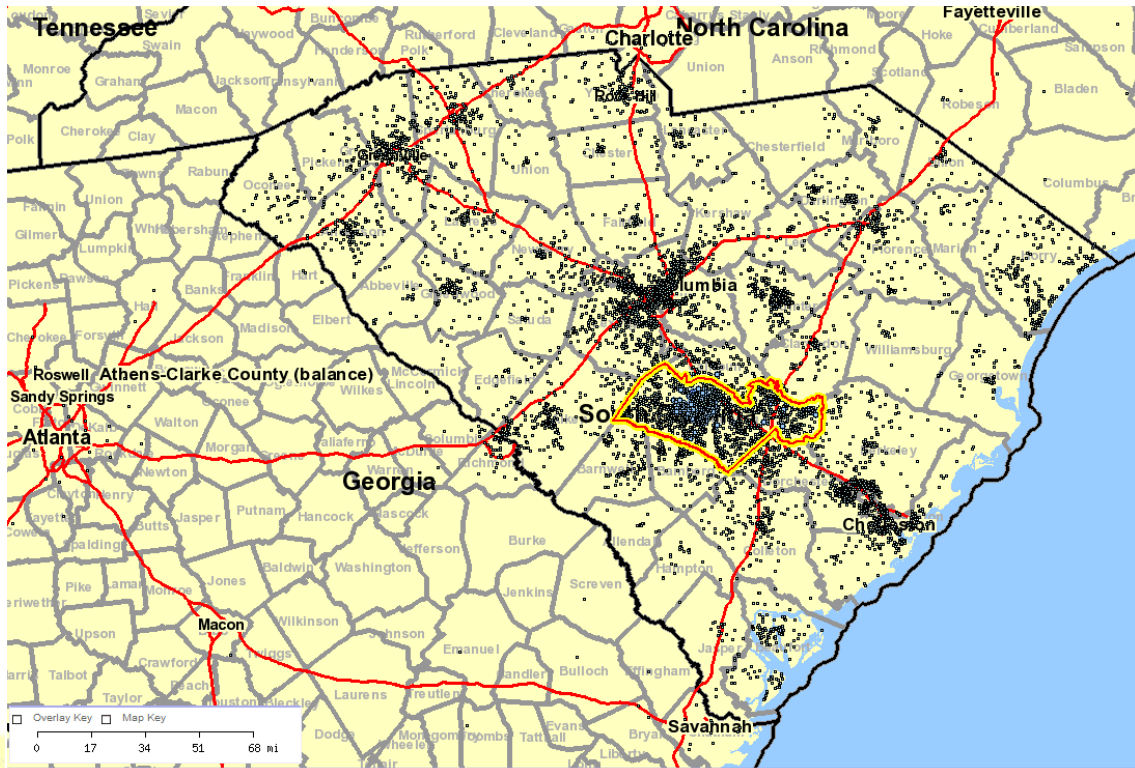
Source: U.S. Census Bureau, American Community Survey.

Migration

Current migrant data is not available for Orangeburg County.

LABORSHED

The map below shows where Orangeburg County workers come from (in 2004, latest available data). As can be seen, Orangeburg County draws workers from a wide area.



Source: U.S. Census Bureau, Local Employment Dynamics

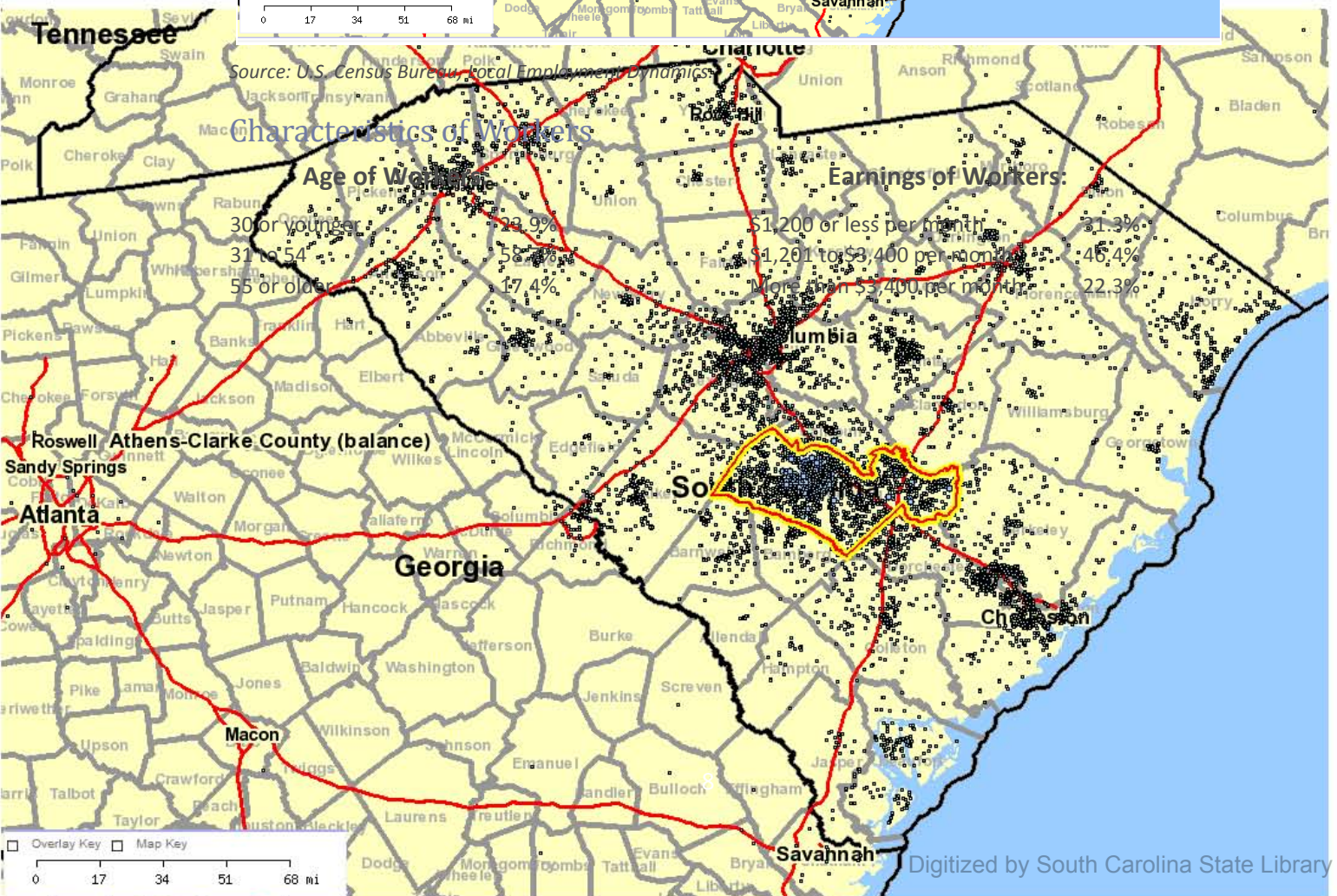
Characteristics of Workers

Age of Workers:

30 or younger: 28.9%
 31 to 54: 58.4%
 55 or older: 17.4%

Earnings of Workers:

\$1,200 or less per month: 21.3%
 \$1,201 to \$3,400 per month: 46.4%
 More than \$3,400 per month: 22.3%



States Where Workers Live:

South Carolina	97.0%
Georgia	0.6%
All other locations	2.4%

Counties Where Workers Live:

Orangeburg	62.4%
Richland	4.3%
Lexington	3.6%
Calhoun	3.2%
Dorchester	2.9%
Berkeley	2.1%
Charleston	1.6%
Sumter	1.6%
Bamberg	1.5%
Horry	1.2%
All other locations	15.7%

Cities Where Workers Live:

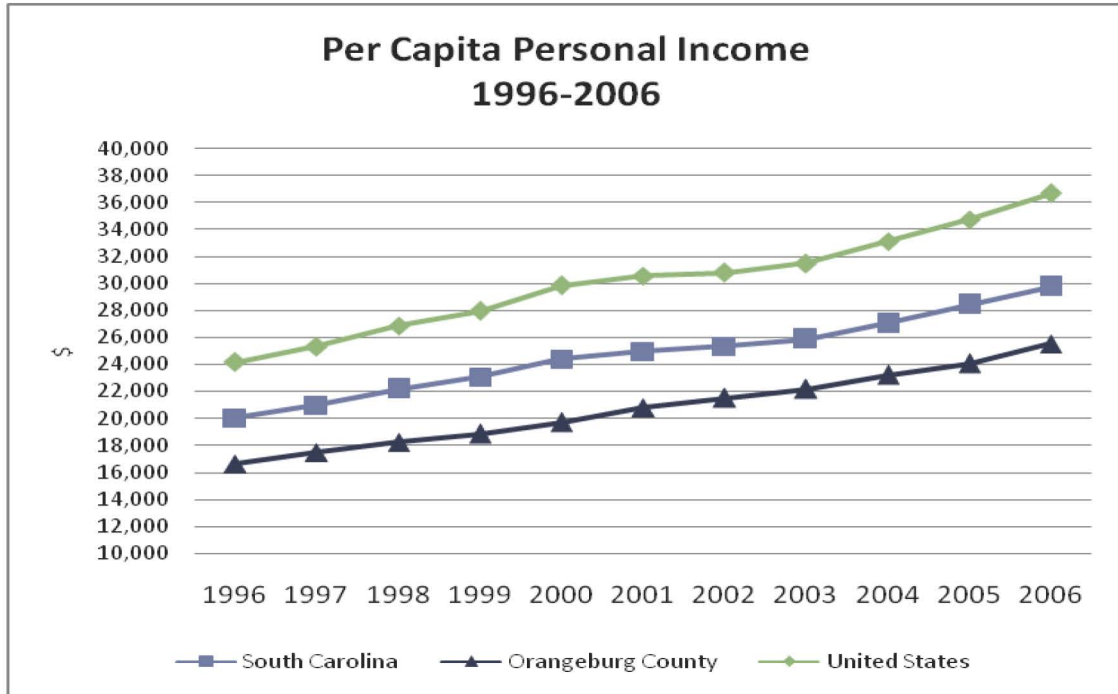
Orangeburg	8.5%
Brookdale	3.6%
Wilkinson Heights	2.7%
Edisto	2.3%
Columbia	1.1%
St. Matthews	0.7%
Branchville	0.6%
Bamberg	0.6%
North Charleston	0.5%
Sumter	0.5%
All other locations	78.7%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

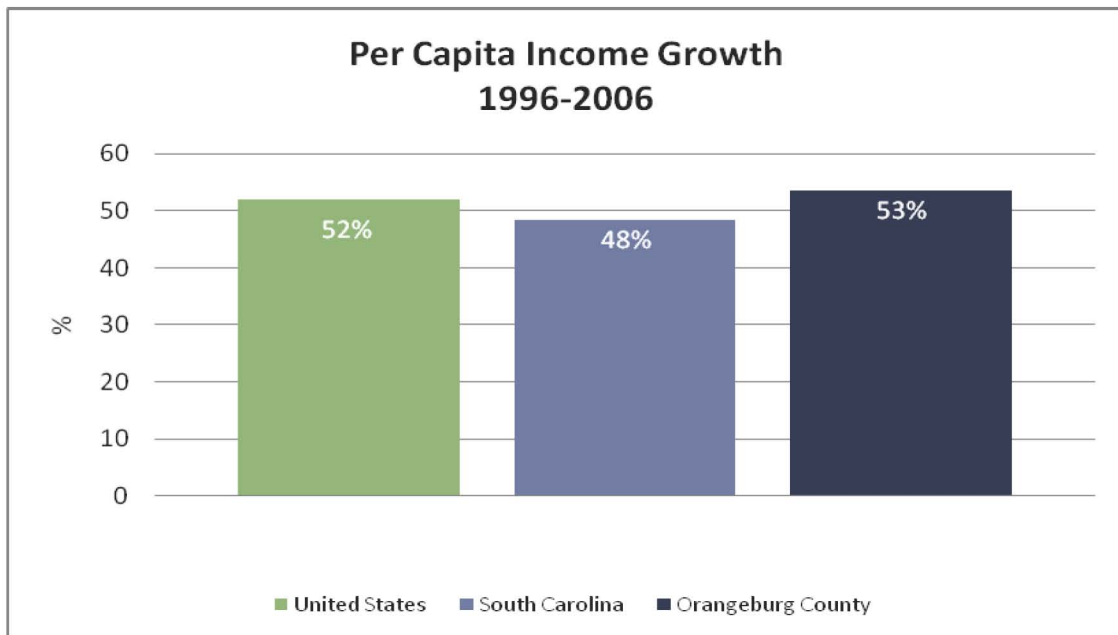
Per Capita Income

Orangeburg County's per capita income has been consistently lower than South Carolina's or the nation. However, growth rose at a constant rate over the past ten years within Orangeburg County.



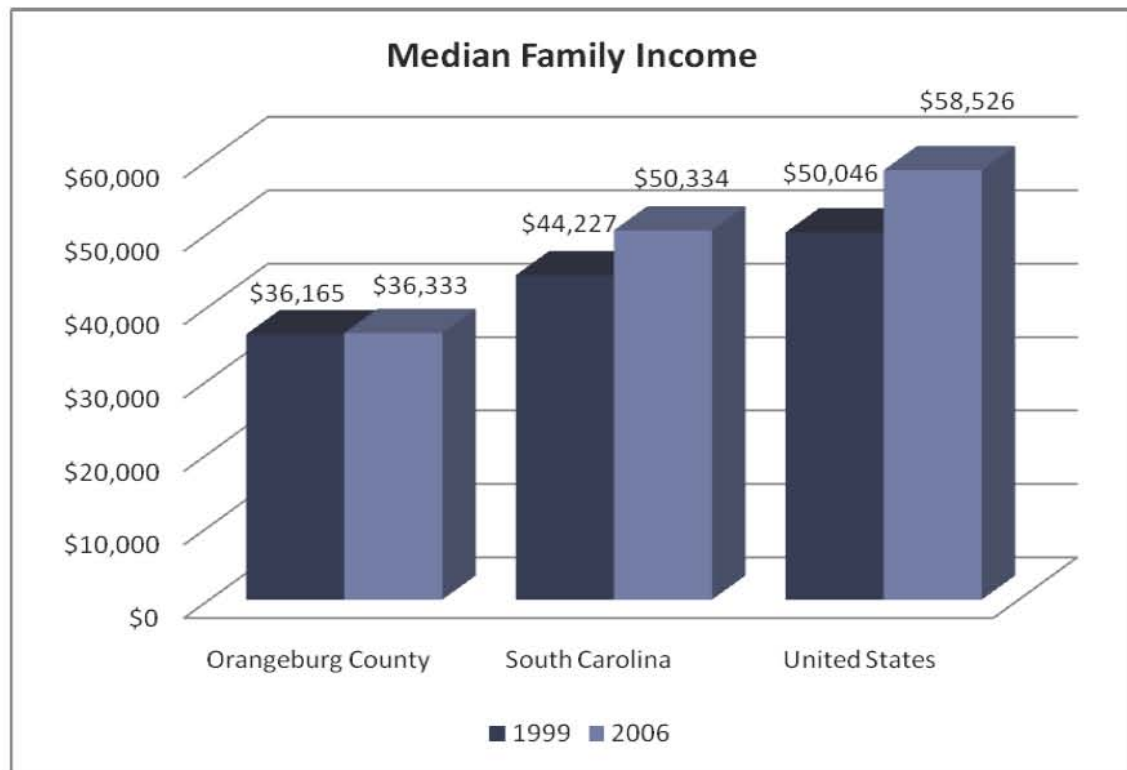
Source: U.S. Department of Commerce, Bureau of Economic Analysis.

While growth in per capita income was higher in Orangeburg County than in South Carolina or the United States, that was due to the decline in Orangeburg's County population more so than income gains.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Orangeburg County has had consistently lower median family income, with little growth.



Sources: U.S. Census Bureau, 2000 Census & 2006 American Community Survey.

Wages by Industry

Orangeburg County has lower average wages than South Carolina (\$590 vs. \$680 in 2007). Average wages in Orangeburg County increased 26% over the past ten years. All major sectors had growth except for information.

Industry	NAICS Code	2007 Average Weekly Wage	1997 Average Weekly Wage	Change
Total, Private & Government		\$590	\$435	26%
Agriculture, Forestry, and Hunting	11	561	425	24
Utilities	22	1,177	840	29
Construction	23	604	493	18
Manufacturing	31-33	767	547	29
Wholesale Trade	42	625	501	20
Retail Trade	44-45	398	296	26
Transportation & Warehousing	48-49	688	478	31
Information	51	526	543	-3
Finance & Insurance	52	738	501	32
Real Estate & Rental & Leasing	53	483	339	30
Professional & Technical Services	54	806	417	48
Management of Companies & Enterprises	55	1,074	488	55
Administration & Support & Waste Management & Remediation Services	56	322	307	5
Educational Services	61	632	367	42
Health Care & Social Assistance	62	586	441	25
Arts, Entertainment, & Recreation	71	294	231	21
Accommodation & Food Services	72	216	159	26
Other Services (Except Public Administration)	81	371	276	26
Federal Government		891	622	30
State Government		773	511	34
Local Government		722	512	29

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

In comparing Orangeburg County occupational wages to South Carolina, wages in Orangeburg County are higher than state averages in the following occupational groups:

- Education, training and library
- Production
- Transportation and material-moving

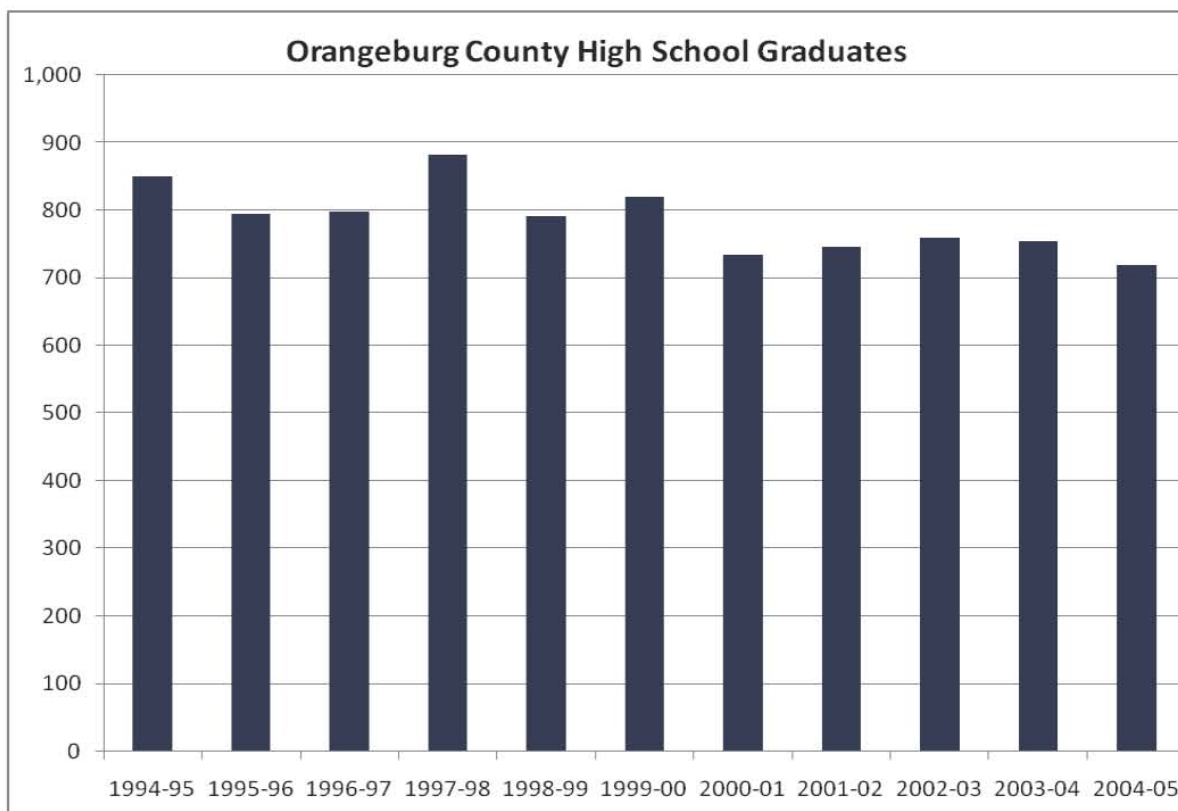
Occupation	2006 Orangeburg County Median Hourly Wage	2006 SC Median Hourly Wage
Management occupations	\$22.86	\$28.85
Business and financial operations occupations	16.12	20.44
Computer and mathematical science occupations	15.54	26.48
Architecture and engineering occupations	28.31	30.24
Life, physical and social science occupations	21.48	22.94
Community and social services occupations	13.72	13.81
Legal occupations	21.25	30.76
Education, training and library occupations	25.53	21.98
Arts, design, entertainment, sports and media occupations	9.91	12.78
Healthcare practitioners and technical occupations	29.01	30.69
Healthcare support occupations	9.16	10.56
Protective service occupations	12.82	13.94
Food preparation and serving related occupations	7.57	7.91
Building and grounds cleaning and maintenance occupations	7.55	8.47
Personal care and service occupations	7.96	8.43
Sales and related occupations	11.40	13.49
Office and administrative support occupations	11.87	13.40
Farming, fishing, and forestry occupations	14.85	13.11
Construction and extraction occupations	13.25	16.51
Installation, maintenance and repair occupations	15.97	16.92
Production occupations	16.11	15.21
Transportation and material moving occupations	13.05	12.92

Source: *Economic Modeling Specialists, Inc.*

EDUCATION

High School Graduates

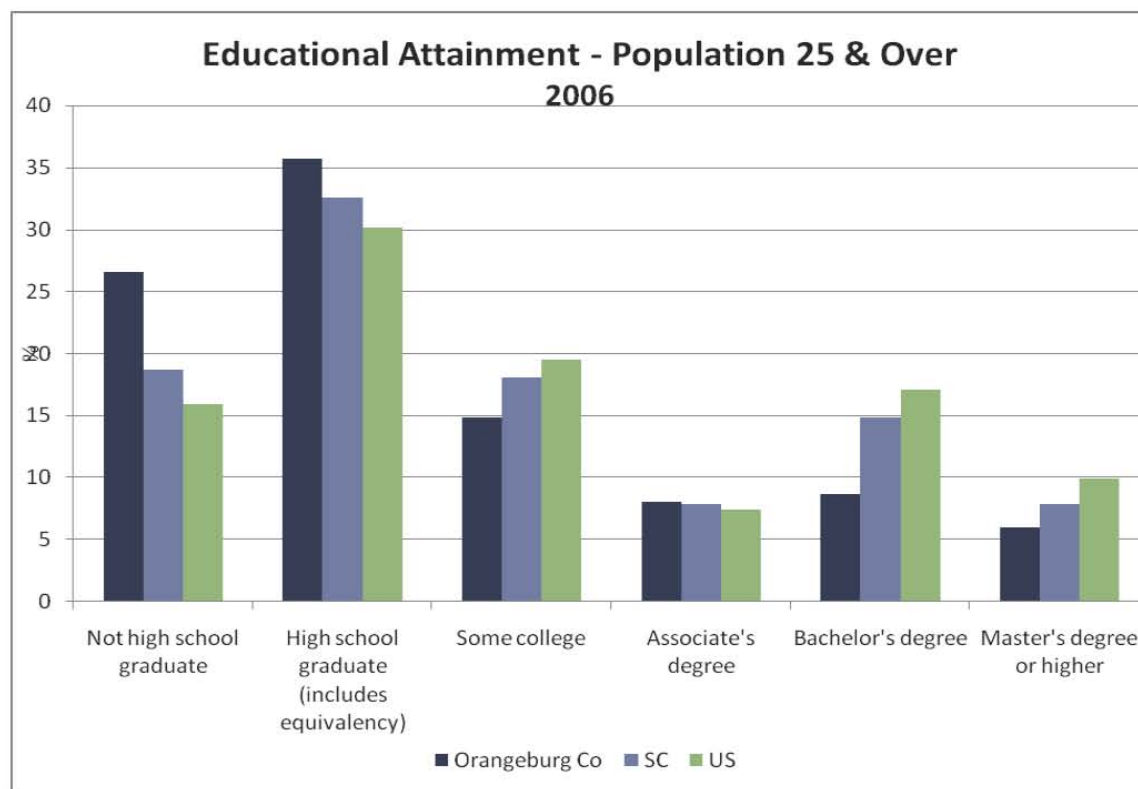
From 1995 to 2005 (latest data available), the number of Orangeburg County students receiving high school diplomas decreased by 132 – or 16%. In South Carolina, on the other hand, the number of high school diplomas increased 9% from 1995 to 2005. A total of 719 people received high school diplomas in Orangeburg County in 2005. Orangeburg County had 89 fewer 12th grade students in 2004-05 than in 1994-95. In addition, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 27 (to 89) over the 1995-2005 period.



Source: National Center for Education Statistics.

Educational Attainment

With the exception of associate's degree holders, Orangeburg County's population is more concentrated in the lower education levels.



Source: U.S. Census Bureau, American Community Survey.

Higher Education Graduates

Over 1,000 more students graduated from higher educational institutions in the Orangeburg County area in 2006 than in 1996, an increase of 33%. The greatest numerical increase was in health-related fields.

Program	1996	2006	Change	% Change
Communication, journalism, and related programs	1	47	46	4,600
Theology and religious vocations	4	31	27	675
Visual and performing arts	12	42	30	250
Philosophy and religious studies	1	3	2	200
Multi/interdisciplinary studies	42	102	60	143
Family and consumer sciences/human sciences	67	147	80	119
Biological and biomedical sciences	58	116	58	100
Psychology	46	83	37	80
Liberal arts and sciences, general studies and humanities	202	330	128	63
Computer and information sciences and support services	131	212	81	62
Mechanic and repair technologies/technicians	206	320	114	55
Health professions and related clinical sciences	744	1,143	399	54
Engineering technologies/technicians	129	181	52	40
Legal professions and studies	78	109	31	40
Business, management, marketing, and related support services	586	650	64	11
Social sciences and history	97	98	1	1
Physical sciences	19	19	0	-
Public administration and social service professions	93	92	-1	-1
English language and literature/letters	49	45	-4	-8
Security and protective services	161	136	-25	-16
Science technologies/technicians	6	5	-1	-17
Education	350	246	-104	-30
Precision production	66	45	-21	-32
Mathematics and statistics	39	25	-14	-36
Construction trades	31	12	-19	-61
Agriculture, agriculture operations, and related sciences	16	4	-12	-75
Natural resources and conservation	5	0	-5	-100
Engineering		1	1	
Parks, recreation, leisure, and fitness studies		44	44	
TOTAL DEGREES AWARDED	3,240	4,305	1,065	33

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Aiken Technical College, Claflin University, Midlands Technical College, Orangeburg-Calhoun Technical College, South Carolina State University, Southern Methodist College, and USC-Aiken.

OCCUPATIONS

Occupational Projections

In most occupational categories, growth rates for South Carolina are higher than Orangeburg County. The following occupational groups are projected to grow faster in Orangeburg County than in the state:

- Food preparation & serving-related
- Production
- Transportation & material-moving

See **Appendix A** for detailed occupational information.

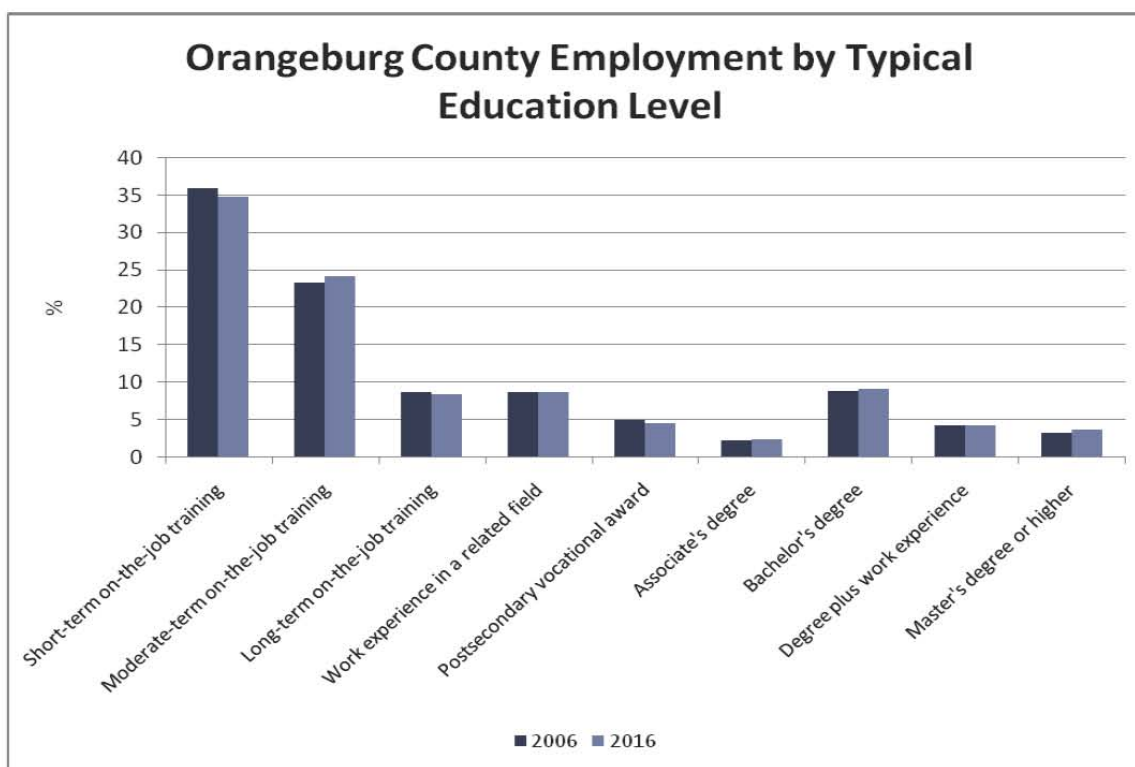
Occupation	2006-2016 Orangeburg County Projected Growth	2006-2016 SC Projected Growth
Management occupations	14%	18%
Business and financial operations occupations	23	24
Computer and mathematical science occupations	27	27
Architecture and engineering occupations	18	19
Life, physical, and social science occupations	21	17
Community and social services occupations	21	16
Legal occupations	19	24
Education, training, and library occupations	18	18
Arts, design, entertainment, sports and media occupations	21	20
Healthcare practitioners and technical occupations	22	27
Healthcare support occupations	13	27
Protective service occupations	26	23
Food preparation and serving related occupations	20	15
Building and grounds cleaning and maintenance occupations	16	26
Personal care and service occupations	0	9
Sales and related occupations	16	21
Office and administrative support occupations	13	15
Farming, fishing, and forestry occupations	22	17
Construction and extraction occupations	10	20
Installation, maintenance, and repair occupations	16	19
Production occupations	22	11
Transportation and material moving occupations	15	13

Source: *Economic Modeling Specialists, Inc.*

Occupational Education Requirements

The trend for occupational growth shows that, over the next ten years, occupations will require more education in general. This is reflected in the projected growth of occupations such as managers and healthcare professionals in Orangeburg County. Based on employment projections, Orangeburg County is expected to see growth in requirements for the following levels of education and experience:

- Moderate-term on-the-job training
- Associate degree
- Bachelor's degree
- Master's degree or higher



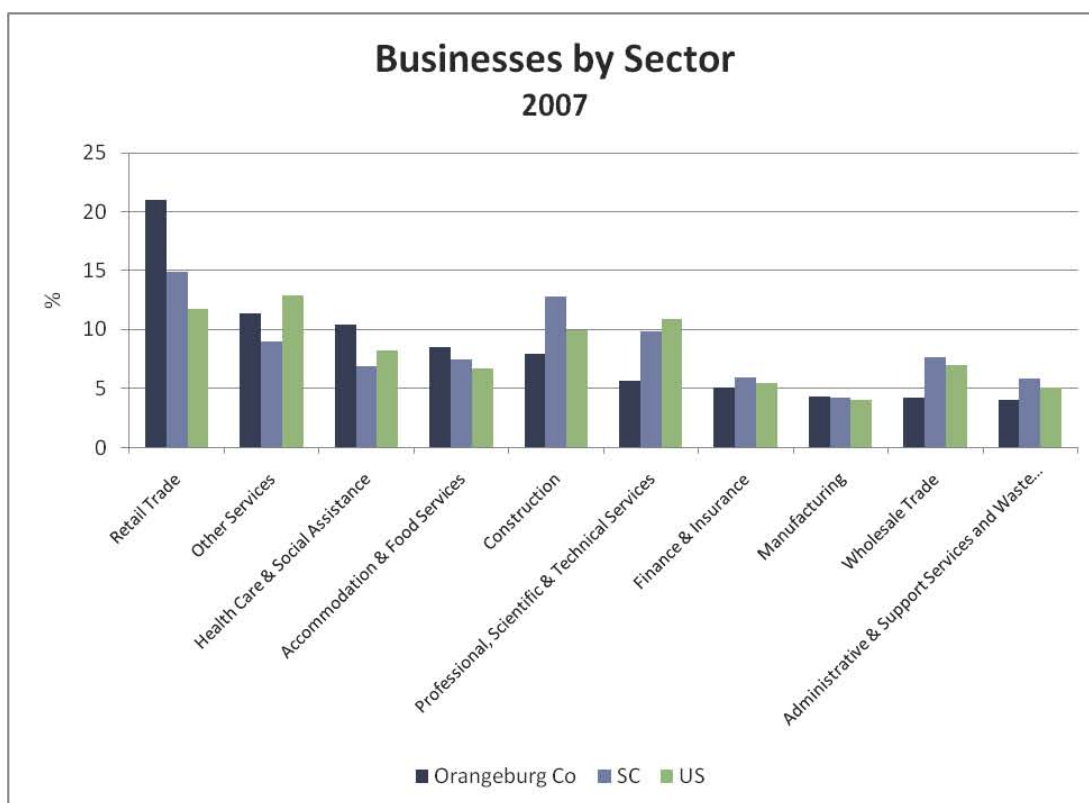
Source: Economic Modeling Specialists, Inc.

INDUSTRY

Businesses by Sector

Orangeburg County had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Manufacturing
- Healthcare & social assistance
- Retail trade
- Accommodation & food services



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Growth in Number of Businesses

The number of private businesses in Orangeburg County fell 3% from 1997 to 2007, compared to 19% growth for the state. Growth was noteworthy in the number of businesses in the fabricated metal product manufacturing, warehousing and storage, and nursing and residential care facilities sectors. For industry definitions, this analysis uses the North American Industry Classification System (NAICS), the U.S. standard for industry classification.

At the three-digit NAICS code level, Orangeburg County had higher growth in 10 industries compared to South Carolina and the U.S. Below is a list of those 10 industries along with their respective growth rates.

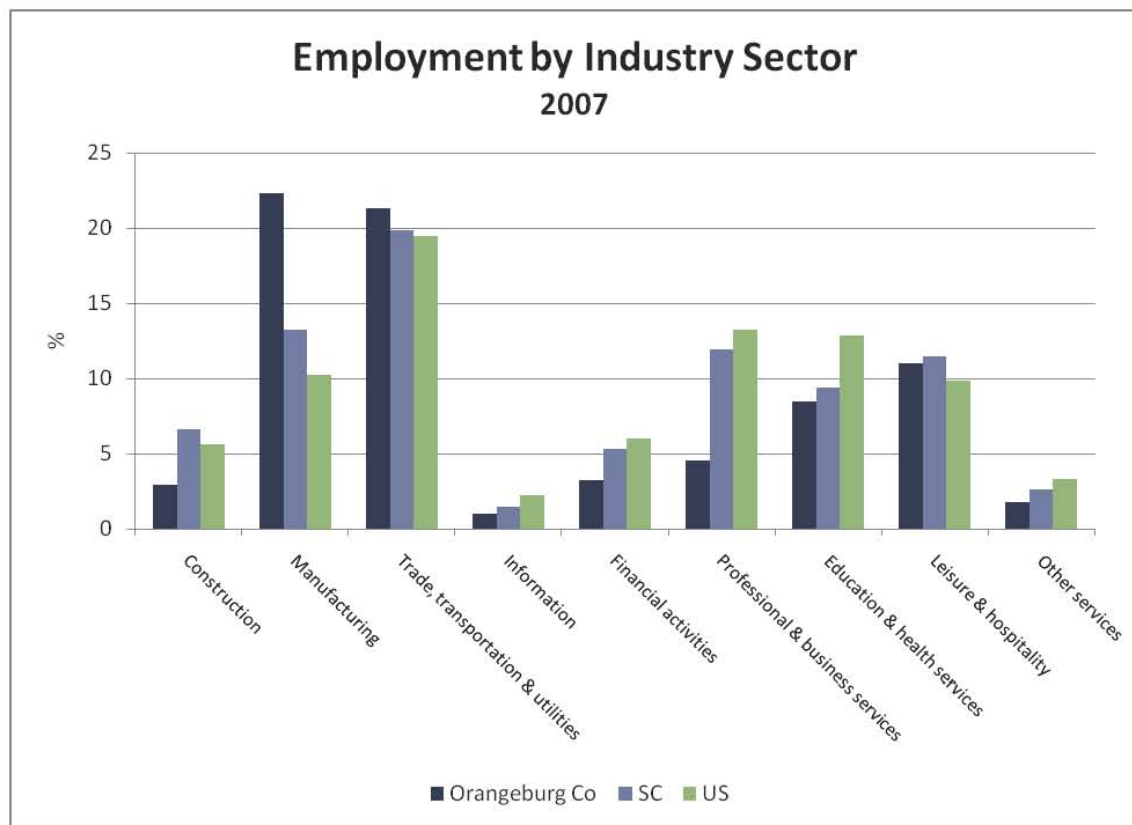
See **Appendix B** for information on all industries.

Industry	1997-2007 Growth (%)		
	Orangeburg Co.	SC	US
Crop production	5.9	-5.3	13.8
Animal production	18.2	4.1	14.5
Fabricated metal product manufacturing	50.0	9.1	-2.6
Health and personal care stores	17.9	17.1	11.3
General merchandise stores	50.0	38.1	26.9
Warehousing and storage	66.7	6.4	18.6
Telecommunications	50.0	42.0	43.7
Educational services	83.3	61.6	51.9
Ambulatory health care services	13.4	28.6	19.8
Nursing and residential care facilities	145.0	30.0	24.4

Source: U.S. Department of Labor, Bureau of Labor Statistics.

Employment by Sector

Compared to South Carolina and the United States, Orangeburg County's employment is more concentrated in manufacturing and trade, transportation and utilities.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

In determining competitive industries in Orangeburg County, industry sectors were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 1997-2007 employment growth | Competitive effect ¹ |
| • 1997-2007 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 1997-2007 employment growth of 50 or more (Did the sector add a significant number of jobs?)
- 1997-2007 employment growth rate greater than 3.6% (Did the sector exceed overall job growth in Orangeburg County?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in Orangeburg County?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than \$30,688 (2007 average for Orangeburg County) (Does the sector pay wages greater than average for Orangeburg County?)
- Average or above average projected growth (Is the sector expected to add jobs?)

Current Industries

Based on these criteria, the following are “six star” sectors in Orangeburg County:

- Fabricated metal product manufacturing
- Truck transportation

These sectors are noteworthy because they typically generate wealth from outside the area. Industry sectors that generate wealth from outside one’s regional area are referred to as the region’s base economy.

Nonmetallic mineral product manufacturing (products made from sand, gravel, stone, clay and refractory materials) meets all criteria except its employment growth (32) was less than 50. Its growth rate of 10.6% was well above Orangeburg County’s average, though.

¹Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in Orangeburg County after accounting for overall US employment growth and growth/decline in the sector in the US.

²Location Quotient: percentage of employment in the sector in Orangeburg County divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in Orangeburg County compared to the US; based on 2007 data.

Ambulatory health care services is a “five star” sector that meets all criteria except that its location quotient is less than 1.25. This sector can bring wealth into Orangeburg County to the extent that the county provides medical services for those outside the county.

These sectors meet all criteria except their wages are below average: building material and garden supply stores, health and personal care stores, gasoline stations, and food services and drinking places. In addition to their lower wages, these are not sectors that typically generate wealth from outside Orangeburg County.

Another sector which fits this base economy criteria, has above-average wages, has a high concentration in the area (as indicated by the location quotient), and is projected to grow is food manufacturing.

Also of note are the wholesale and warehousing sectors. Their wages are above average and they are projected to grow in Orangeburg County.

Appendix C has information on all factors for all sectors for Orangeburg County.

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of Orangeburg County's labor market. We hope that it will help in advancing the progress of Orangeburg County's economic development.

What's been done so far?

The first step of the Orangeburg labor market analysis was to identify the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed an initial Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Orangeburg Base Labor Analysis report should be used as input in a meeting of local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. ***What is Orangeburg's economic base?***

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. ***What are strategies to assist low-wage citizens in non-base economy jobs?***

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. ***What other factors are vital to Orangeburg and its community?***

Over and above pure economic considerations, what is important to the citizens of the Orangeburg community? How does Orangeburg want to be perceived? What quality of life issues affect Orangeburg? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local Greenville stakeholders have identified key industry clusters vital to the future economic development of their region, LMI can delve into a more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients¹, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Orangeburg County

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
11-1011	Chief executives	Degree plus work experience	234	274	40	17	0.86	37.31
11-1021	General and operations managers	Degree plus work experience	433	463	30	7	0.95	35.46
11-1031	Legislators	Degree plus work experience	52	57	5	10	3.47	9.22
11-2021	Marketing managers	Degree plus work experience	19	22	3	16	0.37	23.61
11-2022	Sales managers	Degree plus work experience	41	47	6	15	0.47	29.49
11-3011	Administrative services managers	Degree plus work experience	44	51	7	16	0.73	25.36
11-3021	Computer and information systems managers	Degree plus work experience	28	34	6	21	0.4	37.74
11-3031	Financial managers	Degree plus work experience	92	111	19	21	0.56	32.65
11-3051	Industrial production managers	Work experience in a related field	49	61	12	24	1.25	45.09
11-3061	Purchasing managers	Degree plus work experience	23	27	4	17	1.37	26.68
11-3071	Transportation, storage, and distribution managers	Work experience in a related field	11	13	2	18	0.43	32.27
11-9011	Farm, ranch, and other agricultural managers	Degree plus work experience	191	196	5	3	2.23	5.86
11-9012	Farmers and ranchers	Long-term on-the-job training	947	974	27	3	2.25	5.85
11-9021	Construction managers	Bachelor's degree	170	207	37	22	0.92	15.51
11-9031	Education administrators, preschool and child care center/program	Degree plus work experience	42	61	19	45	1.3	8.45

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
11-9032	Education administrators, elementary and secondary school	Degree plus work experience	136	159	23	17	1.87	36.72
11-9033	Education administrators, postsecondary	Degree plus work experience	91	125	34	37	2	23.76
11-9039	Education administrators, all other	Degree plus work experience	38	59	21	55	1.6	9.99
11-9041	Engineering managers	Degree plus work experience	23	26	3	13	0.49	39.36
11-9051	Food service managers	Work experience in a related field	134	166	32	24	1.21	18.35
11-9081	Lodging managers	Work experience in a related field	58	72	14	24	1.65	25.80
11-9111	Medical and health services managers	Degree plus work experience	62	78	16	26	0.84	34.70
11-9131	Postmasters and mail superintendents	Work experience in a related field	15	16	1	7	2.62	27.86
11-9141	Property, real estate, and community association managers	Bachelor's degree	141	196	55	39	0.49	8.83
11-9151	Social and community service managers	Bachelor's degree	17	21	4	24	0.45	13.57
11-9199	Managers, all other	Work experience in a related field	267	326	59	22	0.69	60.23
13-1022	Wholesale and retail buyers, except farm products	Work experience in a related field	24	25	1	4	0.58	14.35
13-1023	Purchasing agents, except wholesale, retail, and farm products	Work experience in a related field	72	84	12	17	1	19.79
13-1031	Claims adjusters, examiners, and investigators	Long-term on-the-job training	56	60	4	7	0.74	17.72

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	Long-term on-the-job training	19	21	2	11	0.34	15.60
13-1051	Cost estimators	Work experience in a related field	33	39	6	18	0.56	21.47
13-1071	Employment, recruitment, and placement specialists	Bachelor's degree	25	27	2	8	0.49	15.14
13-1073	Training and development specialists	Bachelor's degree	38	48	10	26	0.72	14.82
13-1079	Human resources, training, and labor relations specialists, all other	Bachelor's degree	15	20	5	33	0.27	20.32
13-1111	Management analysts	Degree plus work experience	84	115	31	37	0.34	16.99
13-1121	Meeting and convention planners	Bachelor's degree	12	17	5	42	0.57	8.73
13-1199	Business operation specialists, all other	Bachelor's degree	52	71	19	37	0.2	14.96
13-2011	Accountants and auditors	Bachelor's degree	223	275	52	23	0.59	17.08
13-2021	Appraisers and assessors of real estate	Postsecondary vocational award	88	115	27	31	0.84	10.57
13-2051	Financial analysts	Bachelor's degree	21	30	9	43	0.25	12.34
13-2052	Personal financial advisors	Bachelor's degree	68	100	32	47	0.4	7.35
13-2053	Insurance underwriters	Bachelor's degree	14	14	0	-	0.53	18.54
13-2072	Loan officers	Bachelor's degree	43	47	4	9	0.45	30.12
13-2082	Tax preparers	Moderate-term on-the-job training	19	21	2	11	0.64	9.66
13-2099	Financial specialists, all other	Bachelor's degree	13	11	-2	(15)	0.35	13.66
15-1021	Computer programmers	Bachelor's degree	37	38	1	3	0.31	

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
								19.51
15-1031	Computer software engineers, applications	Bachelor's degree	14	20	6	43	0.11	18.61
15-1032	Computer software engineers, systems software	Bachelor's degree	13	16	3	23	0.14	17.62
15-1041	Computer support specialists	Associate's degree	57	70	13	23	0.41	10.68
15-1051	Computer systems analysts	Bachelor's degree	23	31	8	35	0.19	22.33
15-1071	Network and computer systems administrators	Bachelor's degree	25	33	8	32	0.32	15.11
15-1081	Network systems and data communications analysts	Bachelor's degree	23	35	12	52	0.34	14.46
17-1011	Architects, except landscape and naval	Bachelor's degree	12	12	0	-	0.32	27.03
17-1022	Surveyors	Bachelor's degree	19	15	-4	(21)	1.26	16.92
17-2041	Chemical engineers	Bachelor's degree	12	18	6	50	1.69	53.79
17-2051	Civil engineers	Bachelor's degree	30	33	3	10	0.43	26.23
17-2071	Electrical engineers	Bachelor's degree	20	20	0	-	0.51	31.97
17-2112	Industrial engineers	Bachelor's degree	77	119	42	55	1.57	30.61
17-2141	Mechanical engineers	Bachelor's degree	51	58	7	14	0.92	33.38
17-2199	Engineers, all other	Bachelor's degree	12	13	1	8	0.28	26.84
17-3011	Architectural and civil drafters	Postsecondary vocational award	12	10	--	--	--	--
17-3013	Mechanical drafters	Postsecondary vocational award	10	11	--	--	--	--
17-3023	Electrical and electronic engineering technicians	Associate's degree	67	71	4	6	1.57	21.06

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
17-3026	Industrial engineering technicians	Associate's degree	39	52	13	33	2.13	20.70
17-3027	Mechanical engineering technicians	Associate's degree	11	12	1	9	0.94	22.86
17-3029	Engineering technicians, except drafters, all other	Associate's degree	11	13	2	18	0.57	32.39
17-3031	Surveying and mapping technicians	Moderate-term on-the-job training	14	14	0	-	0.69	17.33
19-1032	Foresters	Bachelor's degree	15	15	0	-	3.86	32.91
19-2031	Chemists	Bachelor's degree	12	15	3	25	0.57	28.00
19-3021	Market research analysts	Bachelor's degree	14	17	3	21	0.21	13.52
19-3031	Clinical, counseling, and school psychologists	Doctoral degree	23	28	5	22	0.54	22.14
19-3039	Psychologists, all other	Master's degree	10	12	--	--	--	--
19-4031	Chemical technicians	Associate's degree	15	21	6	40	1	20.72
21-1011	Substance abuse and behavioral disorder counselors	Master's degree	12	16	4	33	0.52	15.24
21-1012	Educational, vocational, and school counselors	Master's degree	99	117	18	18	1.56	20.72
21-1015	Rehabilitation counselors	Master's degree	28	32	4	14	0.78	13.16
21-1021	Child, family, and school social workers	Bachelor's degree	166	204	38	23	2.27	14.79
21-1022	Medical and public health social workers	Bachelor's degree	31	38	7	23	0.97	17.88
21-1023	Mental health and substance abuse social workers	Master's degree	27	35	8	30	0.82	12.55
21-1029	Social workers, all other	Bachelor's degree	27	33	6	22	1.47	18.24

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
21-1092	Probation officers and correctional treatment specialists	Bachelor's degree	36	41	5	14	1.61	15.18
21-1093	Social and human service assistants	Moderate-term on-the-job training	97	132	35	36	1.12	10.36
21-1099	Community and social service specialists, all other	Bachelor's degree	10	13	--	--	--	--
21-2011	Clergy	Master's degree	71	75	4	6	1.16	6.38
21-2021	Directors, religious activities and education	Bachelor's degree	26	28	2	8	1.13	5.97
21-2099	Religious workers, all other	Bachelor's degree	11	12	1	9	1.12	5.91
23-1011	Lawyers	First professional degree	70	87	17	24	0.33	24.61
23-1023	Judges, magistrate judges, and magistrates	Degree plus work experience	47	52	5	11	7.58	25.78
23-2011	Paralegals and legal assistants	Associate's degree	32	39	7	22	0.54	13.54
25-1099	Postsecondary teachers	Doctoral degree	568	775	207	36	1.51	38.00
25-2011	Preschool teachers, except special education	Postsecondary vocational award	70	74	4	6	0.56	8.02
25-2012	Kindergarten teachers, except special education	Bachelor's degree	86	103	17	20	1.91	22.41
25-2021	Elementary school teachers, except special education	Bachelor's degree	611	714	103	17	1.54	25.86
25-2022	Middle school teachers, except special and vocational education	Bachelor's degree	159	180	21	13	0.92	23.93
25-2031	Secondary school teachers, except special and vocational education	Bachelor's degree	394	430	36	9	1.49	29.16

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
25-2032	Vocational education teachers, secondary school	Degree plus work experience	57	56	-1	(2)	2.14	49.39
25-2041	Special education teachers, preschool, kindergarten, and elementary school	Bachelor's degree	32	39	7	22	0.58	29.09
25-2042	Special education teachers, middle school	Bachelor's degree	23	27	4	17	0.89	47.45
25-2043	Special education teachers, secondary school	Bachelor's degree	48	54	6	13	1.39	25.37
25-3011	Adult literacy, remedial education, and GED teachers and instructors	Bachelor's degree	22	28	6	27	0.62	20.71
25-3021	Self-enrichment education teachers	Work experience in a related field	55	67	12	22	0.85	15.78
25-3099	Teachers and instructors, all other	Bachelor's degree	231	266	35	15	1.4	19.96
25-4021	Librarians	Master's degree	55	61	6	11	1.41	22.06
25-4031	Library technicians	Postsecondary vocational award	38	45	7	18	1.31	8.86
25-9021	Farm and home management advisors	Bachelor's degree	10	14	4	40	1.55	13.68
25-9031	Instructional coordinators	Master's degree	41	54	13	32	1.2	22.26
25-9041	Teacher assistants	Short-term on-the-job training	368	407	39	11	1.07	10.24
25-9099	Education, training, and library workers, all other	Bachelor's degree	13	18	5	38	0.51	10.38
27-1011	Art directors	Degree plus work experience	13	18	5	38	0.4	8.23
27-1012	Craft artists	Long-term on-the-job training	11	16	5	45	0.48	6.06
27-1013	Fine artists, including painters, sculptors, and illustrators	Long-term on-the-job training	12	17	5	42	0.48	6.59

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
27-1014	Multi-media artists and animators	Bachelor's degree	13	18	5	38	0.43	7.38
27-1019	Artists and related workers, all other	Long-term on-the-job training	12	16	4	33	0.48	6.07
27-1023	Floral designers	Moderate-term on-the-job training	19	22	3	16	0.75	10.08
27-1024	Graphic designers	Bachelor's degree	31	38	7	23	0.51	16.52
27-1026	Merchandise displayers and window trimmers	Moderate-term on-the-job training	15	16	1	7	0.58	10.01
27-2022	Coaches and scouts	Long-term on-the-job training	29	37	8	28	0.62	24.51
27-2041	Music directors and composers	Degree plus work experience	24	31	7	29	0.6	6.10
27-2042	Musicians and singers	Long-term on-the-job training	39	50	11	28	0.71	6.98
27-2099	Entertainers and performers, sports and related workers, all other	Long-term on-the-job training	10	12	--	--	--	--
27-3031	Public relations specialists	Bachelor's degree	30	41	11	37	0.46	12.43
27-3041	Editors	Bachelor's degree	15	20	5	33	0.41	13.87
27-3043	Writers and authors	Bachelor's degree	58	88	30	52	0.61	6.24
27-3091	Interpreters and translators	Long-term on-the-job training	18	17	-1	(6)	0.53	9.19
27-3099	Media and communication workers, all other	Long-term on-the-job training	16	14	-2	(13)	0.5	7.95
27-4021	Photographers	Long-term on-the-job training	105	98	-7	(7)	0.59	7.14
29-1021	Dentists, general	First professional degree	16	15	-1	(6)	0.64	53.21
29-1031	Dietitians and nutritionists	Bachelor's degree	13	14	1	8	0.74	22.97
29-1051	Pharmacists	First professional degree	94	138	44	47	1.57	47.72

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
29-1069	Physicians and surgeons	First professional degree	161	199	38	24	0.79	84.68
29-1111	Registered nurses	Associate's degree	526	636	110	21	0.87	25.76
29-1122	Occupational therapists	Master's degree	15	16	1	7	0.57	33.72
29-1123	Physical therapists	Master's degree	22	24	2	9	0.47	33.05
29-1126	Respiratory therapists	Associate's degree	17	21	4	24	0.7	30.82
29-1127	Speech-language pathologists	Master's degree	25	27	2	8	0.8	24.35
29-1131	Veterinarians	First professional degree	10	11	--	--	--	--
29-1199	Health diagnosing and treating practitioners, all other	Bachelor's degree	17	20	3	18	0.69	25.33
29-2011	Medical and clinical laboratory technologists	Bachelor's degree	63	70	7	11	1.54	18.11
29-2012	Medical and clinical laboratory technicians	Associate's degree	36	43	7	19	0.98	12.77
29-2021	Dental hygienists	Associate's degree	22	25	3	14	0.52	20.17
29-2031	Cardiovascular technologists and technicians	Associate's degree	10	13	3	30	0.92	23.54
29-2034	Radiologic technologists and technicians	Associate's degree	29	35	6	21	0.61	21.38
29-2041	Emergency medical technicians and paramedics	Postsecondary vocational award	51	83	32	63	1.05	13.23
29-2052	Pharmacy technicians	Moderate-term on-the-job training	109	165	56	51	1.57	11.96
29-2055	Surgical technologists	Postsecondary vocational award	16	20	4	25	0.75	15.90
29-2061	Licensed practical and licensed vocational nurses	Postsecondary vocational award	269	278	9	3	1.48	16.56

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
29-2071	Medical records and health information technicians	Associate's degree	42	51	9	21	1.03	11.82
29-2081	Opticians, dispensing	Long-term on-the-job training	18	21	3	17	0.88	13.45
29-9011	Occupational health and safety specialists	Bachelor's degree	13	15	2	15	1.22	24.98
31-1011	Home health aides	Short-term on-the-job training	178	223	45	25	0.86	7.53
31-1012	Nursing aides, orderlies, and attendants	Postsecondary vocational award	441	454	13	3	1.22	8.62
31-1013	Psychiatric aides	Short-term on-the-job training	32	50	18	56	1.01	9.03
31-2021	Physical therapist assistants	Associate's degree	13	12	-1	(8)	0.87	15.97
31-9091	Dental assistants	Moderate-term on-the-job training	50	58	8	16	0.72	13.00
31-9092	Medical assistants	Moderate-term on-the-job training	67	91	24	36	0.65	11.32
31-9094	Medical transcriptionists	Postsecondary vocational award	19	24	5	26	0.81	15.37
33-1012	First-line supervisors/managers of police and detectives	Work experience in a related field	16	19	3	19	0.75	24.47
33-1021	First-line supervisors/managers of fire fighting and prevention workers	Work experience in a related field	12	14	2	17	0.99	24.39
33-1099	First-line supervisors/managers, protective service workers, all other	Work experience in a related field	20	25	5	25	1.6	13.04
33-2011	Fire fighters	Long-term on-the-job training	46	56	10	22	0.67	15.09
33-3012	Correctional officers and jailers	Moderate-term on-the-job training	187	227	40	21	1.83	13.58
33-3021	Detectives and criminal investigators	Work experience in a related field	17	21	4	24	0.67	16.00

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
33-3051	Police and sheriff's patrol officers	Long-term on-the-job training	148	177	29	20	0.95	16.14
33-9021	Private detectives and investigators	Work experience in a related field	14	19	5	36	0.86	10.05
33-9032	Security guards	Short-term on-the-job training	229	314	85	37	0.9	8.27
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	Short-term on-the-job training	24	27	3	13	0.84	9.17
33-9099	Protective service workers, all other	Short-term on-the-job training	12	14	2	17	0.61	12.09
35-1011	Chefs and head cooks	Work experience in a related field	54	64	10	19	1.69	9.60
35-1012	First-line supervisors/managers of food preparation and serving workers	Work experience in a related field	279	323	44	16	1.31	11.25
35-2011	Cooks, fast food	Short-term on-the-job training	294	337	43	15	1.88	7.69
35-2012	Cooks, institution and cafeteria	Moderate-term on-the-job training	234	308	74	32	2.31	7.14
35-2014	Cooks, restaurant	Long-term on-the-job training	194	221	27	14	0.93	8.41
35-2015	Cooks, short order	Short-term on-the-job training	80	93	13	16	1.59	8.01
35-2021	Food preparation workers	Short-term on-the-job training	346	438	92	27	1.56	7.11
35-3011	Bartenders	Short-term on-the-job training	49	54	5	10	0.38	7.15
35-3021	Combined food preparation and serving workers, including fast food	Short-term on-the-job training	728	912	184	25	1.19	6.97
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	Short-term on-the-job training	171	205	34	20	1.29	7.08
35-3031	Waiters and waitresses	Short-term on-the-job training	530	604	74	14	0.91	6.72
35-3041	Food servers, nonrestaurant	Short-term on-the-job training	53	67	14	26	1.15	7.35

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
35-9011	Dining room and cafeteria attendants and bartender helpers	Short-term on-the-job training	55	64	9	16	0.54	6.13
35-9021	Dishwashers	Short-term on-the-job training	158	181	23	15	1.24	7.17
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	Short-term on-the-job training	99	111	12	12	1.14	7.07
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	Work experience in a related field	89	106	17	19	0.94	10.69
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	Work experience in a related field	37	45	8	22	0.99	13.13
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	Short-term on-the-job training	602	644	42	7	1.06	8.01
37-2012	Maids and housekeeping cleaners	Short-term on-the-job training	710	842	132	19	1.58	6.29
37-2019	Building cleaning workers, all other	Short-term on-the-job training	93	130	37	40	0.76	5.86
37-2021	Pest control workers	Moderate-term on-the-job training	42	48	6	14	1.77	12.10
37-3011	Landscaping and groundskeeping workers	Short-term on-the-job training	180	202	22	12	0.7	8.72
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	Moderate-term on-the-job training	27	37	10	37	1.07	6.24
37-3013	Tree trimmers and pruners	Short-term on-the-job training	26	36	10	38	1.01	6.18
37-3019	Grounds maintenance workers, all other	Short-term on-the-job training	28	38	10	36	1.13	6.06

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
39-1021	First-line supervisors/managers of personal service workers	Work experience in a related field	40	31	-9	(23)	0.67	9.59
39-2011	Animal trainers	Moderate-term on-the-job training	33	31	-2	(6)	1.4	7.63
39-2021	Nonfarm animal caretakers	Short-term on-the-job training	89	63	-26	(29)	0.99	6.70
39-3091	Amusement and recreation attendants	Short-term on-the-job training	23	28	5	22	0.39	6.90
39-5012	Hairdressers, hairstylists, and cosmetologists	Postsecondary vocational award	110	49	-61	(55)	0.79	7.55
39-9011	Child care workers	Short-term on-the-job training	341	414	73	21	0.85	6.97
39-9021	Personal and home care aides	Short-term on-the-job training	220	261	41	19	1.05	9.79
39-9031	Fitness trainers and aerobics instructors	Postsecondary vocational award	34	36	2	6	0.53	6.77
39-9032	Recreation workers	Short-term on-the-job training	47	51	4	9	0.54	8.22
39-9041	Residential advisors	Moderate-term on-the-job training	11	12	1	9	0.82	9.97
39-9099	Personal care and service workers, all other	Short-term on-the-job training	20	12	-8	(40)	0.68	7.05
41-1011	First-line supervisors/managers of retail sales workers	Work experience in a related field	684	770	86	13	1.23	18.10
41-1012	First-line supervisors/managers of non-retail sales workers	Work experience in a related field	163	193	30	18	0.71	19.81
41-2011	Cashiers, except gaming	Short-term on-the-job training	1636	1915	279	17	1.85	7.80
41-2012	Gaming change persons and booth cashiers	Short-term on-the-job training	15	15	0	-	0.93	32.77
41-2021	Counter and rental clerks	Short-term on-the-job training	96	108	12	13	0.8	8.40
41-2022	Parts salespersons	Moderate-term on-the-job training	34	30	-4	(12)	0.57	11.64
41-2031	Retail salespersons	Short-term on-the-job training	1404	1547	143	10	1.14	9.24
41-3011	Advertising sales agents	Moderate-term on-the-job training	12	18	6	50	0.22	13.79

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
41-3021	Insurance sales agents	Bachelor's degree	126	120	-6	(5)	0.7	9.88
41-3031	Securities, commodities, and financial services sales agents	Bachelor's degree	54	75	21	39	0.32	10.01
41-3099	Sales representatives, services, all other	Moderate-term on-the-job training	55	73	18	33	0.32	12.83
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	Moderate-term on-the-job training	123	143	20	16	0.95	35.98
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	Moderate-term on-the-job training	247	284	37	15	0.61	22.26
41-9011	Demonstrators and product promoters	Moderate-term on-the-job training	17	20	3	18	0.54	9.62
41-9021	Real estate brokers	Work experience in a related field	220	307	87	40	0.52	7.70
41-9022	Real estate sales agents	Postsecondary vocational award	234	322	88	38	0.51	7.88
41-9041	Telemarketers	Short-term on-the-job training	23	26	3	13	0.22	8.90
41-9091	Door-to-door sales workers, news and street vendors, and related workers	Short-term on-the-job training	181	187	6	3	0.66	5.89
41-9099	Sales and related workers, all other	Moderate-term on-the-job training	51	58	7	14	0.58	8.49
43-1011	First-line supervisors/managers of office and administrative support workers	Work experience in a related field	342	385	43	13	0.9	17.31
43-2011	Switchboard operators, including answering service	Short-term on-the-job training	40	42	2	5	0.87	8.46
43-3011	Bill and account collectors	Short-term on-the-job training	97	117	20	21	0.9	

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
								11.28
43-3021	Billing and posting clerks and machine operators	Moderate-term on-the-job training	91	100	9	10	0.68	12.99
43-3031	Bookkeeping, accounting, and auditing clerks	Moderate-term on-the-job training	518	601	83	16	0.93	11.99
43-3051	Payroll and timekeeping clerks	Moderate-term on-the-job training	42	43	1	2	0.78	13.55
43-3061	Procurement clerks	Short-term on-the-job training	31	33	2	6	1.62	13.02
43-3071	Tellers	Short-term on-the-job training	188	258	70	37	1.24	12.03
43-4011	Brokerage clerks	Moderate-term on-the-job training	11	13	2	18	0.6	14.95
43-4031	Court, municipal, and license clerks	Short-term on-the-job training	28	32	4	14	1.06	12.33
43-4041	Credit authorizers, checkers, and clerks	Short-term on-the-job training	12	11	-1	(8)	0.71	13.89
43-4051	Customer service representatives	Moderate-term on-the-job training	468	668	200	43	0.85	12.27
43-4071	File clerks	Short-term on-the-job training	50	32	-18	(36)	0.8	6.98
43-4081	Hotel, motel, and resort desk clerks	Short-term on-the-job training	161	170	9	6	2.96	7.23
43-4111	Interviewers, except eligibility and loan	Short-term on-the-job training	52	63	11	21	0.87	10.14
43-4121	Library assistants, clerical	Short-term on-the-job training	16	19	3	19	0.6	9.61
43-4131	Loan interviewers and clerks	Short-term on-the-job training	25	23	-2	(8)	0.37	12.90
43-4141	New accounts clerks	Work experience in a related field	16	16	0	-	0.77	15.37
43-4151	Order clerks	Short-term on-the-job training	62	50	-12	(19)	0.9	10.61
43-4161	Human resources assistants, except payroll and timekeeping	Short-term on-the-job training	53	63	10	19	1.3	14.99

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
43-4171	Receptionists and information clerks	Short-term on-the-job training	219	255	36	16	0.75	9.97
43-4181	Reservation and transportation ticket agents and travel clerks	Short-term on-the-job training	20	23	3	15	0.48	9.03
43-4199	Information and record clerks, all other	Short-term on-the-job training	34	31	-3	(9)	0.57	11.35
43-5021	Couriers and messengers	Short-term on-the-job training	62	91	29	47	0.8	7.01
43-5031	Police, fire, and ambulance dispatchers	Moderate-term on-the-job training	43	52	9	21	1.76	10.95
43-5032	Dispatchers, except police, fire, and ambulance	Moderate-term on-the-job training	40	46	6	15	0.84	17.84
43-5041	Meter readers, utilities	Short-term on-the-job training	21	19	-2	(10)	1.84	17.03
43-5051	Postal service clerks	Short-term on-the-job training	15	16	1	7	0.77	22.50
43-5052	Postal service mail carriers	Short-term on-the-job training	80	84	4	5	0.96	21.51
43-5053	Postal service mail sorters, processors, and processing machine operators	Short-term on-the-job training	14	13	-1	(7)	0.27	16.25
43-5061	Production, planning, and expediting clerks	Short-term on-the-job training	81	100	19	23	1.12	14.79
43-5071	Shipping, receiving, and traffic clerks	Short-term on-the-job training	227	261	34	15	1.19	12.57
43-5081	Stock clerks and order fillers	Short-term on-the-job training	546	539	-7	(1)	1.25	10.08
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	Short-term on-the-job training	16	15	-1	(6)	0.82	12.51
43-6011	Executive secretaries and administrative assistants	Moderate-term on-the-job training	322	384	62	19	0.77	12.63
43-6012	Legal secretaries	Postsecondary vocational award	62	73	11	18	0.68	13.05

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
43-6013	Medical secretaries	Postsecondary vocational award	146	172	26	18	1.2	12.76
43-6014	Secretaries, except legal, medical, and executive	Moderate-term on-the-job training	604	618	14	2	1.2	11.61
43-9011	Computer operators	Moderate-term on-the-job training	26	21	-5	(19)	0.76	13.72
43-9021	Data entry keyers	Moderate-term on-the-job training	34	36	2	6	0.39	9.93
43-9022	Word processors and typists	Moderate-term on-the-job training	17	20	3	18	0.35	10.03
43-9041	Insurance claims and policy processing clerks	Moderate-term on-the-job training	34	31	-3	(9)	0.52	14.12
43-9051	Mail clerks and mail machine operators, except postal service	Short-term on-the-job training	18	18	0	-	0.44	10.29
43-9061	Office clerks, general	Short-term on-the-job training	610	697	87	14	0.75	9.45
43-9199	Office and administrative support workers, all other	Short-term on-the-job training	22	24	2	9	0.28	10.11
45-1099	Supervisors, farming, fishing, and forestry workers	Work experience in a related field	34	42	8	24	3.23	28.28
45-2041	Graders and sorters, agricultural products	Work experience in a related field	15	15	0	-	1.05	11.76
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	Short-term on-the-job training	75	93	18	24	1	8.72
45-2093	Farmworkers, farm and ranch animals	Short-term on-the-job training	31	39	8	26	2.25	9.93
45-2099	Agricultural workers, all other	Short-term on-the-job training	18	22	4	22	5.05	11.30
45-3011	Fishers and related fishing workers	Moderate-term on-the-job training	15	16	1	7	0.62	6.18
45-4011	Forest and conservation workers	Moderate-term on-the-job training	10	12	2	20	3.99	14.88
45-4021	Fallers	Moderate-term on-the-job training	22	27	5	23	3.84	19.87

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
45-4022	Logging equipment operators	Moderate-term on-the-job training	64	84	20	31	5.84	15.20
45-4023	Log graders and scalers	Moderate-term on-the-job training	15	18	3	20	3.14	23.88
45-4029	Logging workers, all other	Moderate-term on-the-job training	10	14	4	40	1.99	28.54
47-1011	First-line supervisors/managers of construction trades and extraction workers	Work experience in a related field	224	253	29	13	0.83	15.81
47-2021	Brickmasons and blockmasons	Long-term on-the-job training	77	71	-6	(8)	1.91	13.23
47-2022	Stonemasons	Long-term on-the-job training	10	12	--	--	--	--
47-2031	Carpenters	Long-term on-the-job training	362	407	45	12	0.82	13.12
47-2041	Carpet installers	Moderate-term on-the-job training	10	12	--	--	--	--
47-2044	Tile and marble setters	Long-term on-the-job training	22	28	6	27	1.1	11.73
47-2051	Cement masons and concrete finishers	Moderate-term on-the-job training	42	41	-1	(2)	0.71	13.58
47-2061	Construction laborers	Moderate-term on-the-job training	234	245	11	5	0.66	10.33
47-2071	Paving, surfacing, and tamping equipment operators	Moderate-term on-the-job training	11	11	0	-	0.66	16.36
47-2073	Operating engineers and other construction equipment operators	Moderate-term on-the-job training	107	102	-5	(5)	1	14.35
47-2081	Drywall and ceiling tile installers	Moderate-term on-the-job training	17	17	0	-	0.37	12.68
47-2082	Tapers	Moderate-term on-the-job training	10	11	--	--	--	--
47-2111	Electricians	Long-term on-the-job training	131	169	38	29	0.7	17.66
47-2121	Glaziers	Long-term on-the-job training	10	11	--	--	--	--
47-2141	Painters, construction and maintenance	Moderate-term on-the-job training	103	113	10	10	0.72	12.65

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
47-2151	Pipelayers	Moderate-term on-the-job training	21	25	4	19	0.74	12.15
47-2152	Plumbers, pipefitters, and steamfitters	Long-term on-the-job training	33	39	6	18	0.27	12.78
47-2181	Roofers	Moderate-term on-the-job training	24	28	4	17	0.5	11.21
47-2211	Sheet metal workers	Long-term on-the-job training	257	296	39	15	5.26	12.91
47-2221	Structural iron and steel workers	Long-term on-the-job training	22	23	1	5	1.16	15.33
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	Short-term on-the-job training	23	20	-3	(13)	1.39	10.76
47-3012	Helpers, carpenters	Short-term on-the-job training	89	87	-2	(2)	3.23	9.02
47-3013	Helpers, electricians	Short-term on-the-job training	14	19	5	36	0.54	10.85
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	Short-term on-the-job training	15	14	-1	(7)	0.68	10.99
47-4011	Construction and building inspectors	Work experience in a related field	16	19	3	19	0.51	21.74
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	Work experience in a related field	130	144	14	11	1.12	21.89
49-2011	Computer, automated teller, and office machine repairers	Postsecondary vocational award	26	32	6	23	0.55	11.65
49-2022	Telecommunications equipment installers and repairers, except line installers	Long-term on-the-job training	39	49	10	26	0.72	14.96
49-2092	Electric motor, power tool, and related repairers	Postsecondary vocational award	17	16	-1	(6)	2.72	14.78

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
49-2094	Electrical and electronics repairers, commercial and industrial equipment	Postsecondary vocational award	13	17	4	31	0.69	22.69
49-3011	Aircraft mechanics and service technicians	Postsecondary vocational award	17	18	1	6	0.56	22.11
49-3021	Automotive body and related repairers	Long-term on-the-job training	45	49	4	9	0.92	17.40
49-3023	Automotive service technicians and mechanics	Postsecondary vocational award	214	229	15	7	1.02	12.69
49-3031	Bus and truck mechanics and diesel engine specialists	Postsecondary vocational award	53	62	9	17	0.76	14.75
49-3042	Mobile heavy equipment mechanics, except engines	Postsecondary vocational award	22	24	2	9	0.71	19.98
49-3093	Tire repairers and changers	Short-term on-the-job training	33	35	2	6	1.26	10.17
49-9012	Control and valve installers and repairers, except mechanical door	Moderate-term on-the-job training	14	15	1	7	1.32	28.43
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	Long-term on-the-job training	53	59	6	11	0.65	14.54
49-9031	Home appliance repairers	Long-term on-the-job training	16	16	0	-	0.78	8.75
49-9041	Industrial machinery mechanics	Long-term on-the-job training	130	176	46	35	2.03	21.80
49-9042	Maintenance and repair workers, general	Moderate-term on-the-job training	641	761	120	19	1.82	15.10
49-9043	Maintenance workers, machinery	Short-term on-the-job training	41	50	9	22	2.05	19.32
49-9044	Millwrights	Long-term on-the-job training	14	15	1	7	1.07	22.52
49-9051	Electrical power-line installers and repairers	Long-term on-the-job training	21	24	3	14	0.75	25.14

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
49-9052	Telecommunications line installers and repairers	Long-term on-the-job training	21	25	4	19	0.47	14.31
49-9091	Coin, vending, and amusement machine servicers and repairers	Moderate-term on-the-job training	20	20	0	-	1.18	11.12
49-9098	Helpers--Installation, maintenance, and repair workers	Short-term on-the-job training	30	34	4	13	0.75	8.41
49-9099	Installation, maintenance, and repair workers, all other	Moderate-term on-the-job training	15	17	2	13	0.39	14.07
51-1011	First-line supervisors/managers of production and operating workers	Work experience in a related field	379	464	85	22	2.14	25.58
51-2021	Coil winders, tapers, and finishers	Short-term on-the-job training	14	13	-1	(7)	2.47	18.13
51-2022	Electrical and electronic equipment assemblers	Short-term on-the-job training	24	20	-4	(17)	0.43	14.45
51-2031	Engine and other machine assemblers	Short-term on-the-job training	73	84	11	15	6.57	10.56
51-2041	Structural metal fabricators and fitters	Moderate-term on-the-job training	40	48	8	20	1.59	24.61
51-2091	Fiberglass laminators and fabricators	Moderate-term on-the-job training	14	29	15	107	1.34	27.94
51-2092	Team assemblers	Moderate-term on-the-job training	1082	1362	280	26	3.43	13.23
51-2099	Assemblers and fabricators, all other	Moderate-term on-the-job training	487	569	82	17	6.48	13.59
51-3011	Bakers	Long-term on-the-job training	20	23	3	15	0.54	55.05
51-3021	Butchers and meat cutters	Long-term on-the-job training	31	36	5	16	0.96	13.81
51-3092	Food batchmakers	Short-term on-the-job training	25	28	3	12	1.07	18.49

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
51-3093	Food cooking machine operators and tenders	Short-term on-the-job training	10	10	--	--	--	--
51-4011	Computer-controlled machine tool operators, metal and plastic	Moderate-term on-the-job training	155	215	60	39	4.46	12.69
51-4012	Numerical tool and process control programmers	Long-term on-the-job training	10	13	3	30	2.27	18.38
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	89	158	69	78	3.79	12.73
51-4022	Forging machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	21	25	4	19	2.64	16.77
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	28	39	11	39	3.21	15.94
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	116	135	19	16	1.69	12.66
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	29	33	4	14	2.7	17.36
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	89	113	24	27	3.55	15.24
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	37	42	5	14	2.23	16.83

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	20	24	4	20	2.75	17.15
51-4041	Machinists	Long-term on-the-job training	93	115	22	24	0.97	16.02
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	90	157	67	74	2.27	15.37
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	46	71	25	54	1.93	15.90
51-4111	Tool and die makers	Long-term on-the-job training	63	91	28	44	2.57	18.32
51-4121	Welders, cutters, solderers, and brazers	Long-term on-the-job training	184	231	47	26	1.86	14.38
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	Moderate-term on-the-job training	39	53	14	36	2.21	16.82
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	21	29	8	38	3.09	15.86
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	22	26	4	18	2.14	14.06
51-4199	Metal workers and plastic workers, all other	Moderate-term on-the-job training	13	15	2	15	1.03	16.56
51-5011	Bindery workers	Short-term on-the-job training	10	11	1	10	0.61	12.13
51-5021	Job printers	Long-term on-the-job training	24	31	7	29	1.88	19.48
51-5022	Prepress technicians and workers	Postsecondary vocational award	32	35	3	9	1.69	15.03
51-5023	Printing machine	Moderate-term on-the-job training	63	85	22	35	1.25	

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
	operators							16.85
51-6011	Laundry and dry-cleaning workers	Moderate-term on-the-job training	69	61	-8	(12)	1.02	7.91
51-6021	Pressers, textile, garment, and related materials	Short-term on-the-job training	30	19	-11	(37)	1.53	7.93
51-6031	Sewing machine operators	Moderate-term on-the-job training	44	38	-6	(14)	0.69	12.98
51-6051	Sewers, hand	Short-term on-the-job training	15	15	0	-	0.83	6.90
51-6052	Tailors, dressmakers, and custom sewers	Long-term on-the-job training	19	19	0	-	0.81	7.03
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	Moderate-term on-the-job training	12	22	10	83	2.58	18.98
51-6093	Upholsterers	Long-term on-the-job training	16	16	0	-	0.64	8.24
51-7011	Cabinetmakers and bench carpenters	Long-term on-the-job training	24	35	11	46	0.63	14.03
51-7041	Sawing machine setters, operators, and tenders, wood	Moderate-term on-the-job training	60	42	-18	(30)	3.55	23.06
51-7042	Woodworking machine setters, operators, and tenders, except sawing	Moderate-term on-the-job training	38	37	-1	(3)	1.49	16.67
51-8013	Power plant operators	Long-term on-the-job training	27	29	2	7	3.16	32.32
51-8021	Stationary engineers and boiler operators	Long-term on-the-job training	20	21	1	5	1.78	17.73
51-8031	Water and liquid waste treatment plant and system operators	Long-term on-the-job training	37	44	7	19	1.42	17.71
51-8091	Chemical plant and system operators	Long-term on-the-job training	56	82	26	46	4.23	26.28
51-9011	Chemical equipment operators and tenders	Moderate-term on-the-job training	131	185	54	41	10.32	26.75

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	Moderate-term on-the-job training	15	18	3	20	1.37	19.91
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	Moderate-term on-the-job training	25	27	2	8	2.4	25.84
51-9023	Mixing and blending machine setters, operators, and tenders	Moderate-term on-the-job training	35	44	9	26	0.98	16.05
51-9032	Cutting and slicing machine setters, operators, and tenders	Moderate-term on-the-job training	33	44	11	33	1.65	15.14
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	Moderate-term on-the-job training	39	54	15	38	1.86	17.12
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	Moderate-term on-the-job training	58	60	2	3	8.48	14.45
51-9061	Inspectors, testers, sorters, samplers, and weighers	Moderate-term on-the-job training	269	314	45	17	2.16	14.51
51-9071	Jewelers and precious stone and metal workers	Postsecondary vocational award	10	10	--	--	--	--
51-9111	Packaging and filling machine operators and tenders	Short-term on-the-job training	108	116	8	7	1.11	17.15
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	Moderate-term on-the-job training	43	50	7	16	1.59	13.04
51-9122	Painters, transportation equipment	Long-term on-the-job training	22	24	2	9	1.53	15.60
51-9123	Painting, coating, and decorating workers	Short-term on-the-job training	12	15	3	25	1.43	12.75

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
51-9132	Photographic processing machine operators	Short-term on-the-job training	28	15	-13	(46)	1.89	10.46
51-9195	Molders, shapers, and casters, except metal and plastic	Moderate-term on-the-job training	17	25	8	47	1.41	16.84
51-9196	Paper goods machine setters, operators, and tenders	Moderate-term on-the-job training	100	127	27	27	3.51	19.38
51-9198	Helpers--Production workers	Short-term on-the-job training	73	80	7	10	0.54	14.57
51-9199	Production workers, all other	Moderate-term on-the-job training	109	124	15	14	1.47	10.80
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	Work experience in a related field	36	43	7	19	0.78	20.40
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	Work experience in a related field	38	46	8	21	0.68	21.69
53-3011	Ambulance drivers and attendants, except emergency medical technicians	Moderate-term on-the-job training	25	35	10	40	4.95	7.44
53-3021	Bus drivers, transit and intercity	Moderate-term on-the-job training	19	20	1	5	0.37	8.80
53-3022	Bus drivers, school	Short-term on-the-job training	153	166	13	8	1.29	8.26
53-3031	Driver/sales workers	Short-term on-the-job training	239	293	54	23	1.52	13.68
53-3032	Truck drivers, heavy and tractor-trailer	Moderate-term on-the-job training	813	1059	246	30	1.71	16.71
53-3033	Truck drivers, light or delivery services	Short-term on-the-job training	413	510	97	23	1.4	12.38
53-3041	Taxi drivers and	Short-term on-the-job training	17	17	0	-	0.22	6.70

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 National LQ	2007 Median Hourly Earnings (\$)
	chauffeurs							
53-6021	Parking lot attendants	Short-term on-the-job training	13	11	-2	(15)	0.37	8.50
53-7051	Industrial truck and tractor operators	Short-term on-the-job training	314	323	9	3	1.95	13.80
53-7061	Cleaners of vehicles and equipment	Short-term on-the-job training	37	38	1	3	0.41	10.49
53-7062	Laborers and freight, stock, and material movers, hand	Short-term on-the-job training	482	492	10	2	0.79	9.93
53-7063	Machine feeders and offbearers	Short-term on-the-job training	104	100	-4	(4)	2.76	13.10
53-7064	Packers and packagers, hand	Short-term on-the-job training	186	185	-1	(1)	0.87	8.23
53-7081	Refuse and recyclable material collectors	Short-term on-the-job training	104	126	22	21	2.87	7.99
			42,938	50,049	7,111	17		\$14.86
Source: EMSI							at least 1.25	greater than \$14.86

Appendix B: Businesses By 3-Digit NAICS Codes

Industry	NAICS Code	1997	2007	Average Size	Change		SC % Change	US % Change
					#	%		
Crop Production	111	17	18	25	1	5.9	-5.3	-13.8
Animal Production	112	11	13	7	2	18.2	4.1	14.5
Forestry and Logging	113	31	18	8	-13	-41.9	-27.2	-25.8
Support Activities for Agriculture and Forestry	115	12	11	4	-1	-8.3	0.0	2.7
Utilities	221	5	5	28	0	0.0	22.8	5.3
Construction of Buildings	236	48	38	9	-10	-20.8	26.4	25.2
Heavy and Civil Engineering Construction	237	19	17	5	-2	-10.5	27.2	1.9
Specialty Trade Contractors	238	110	88	6	-22	-20.0	16.8	24.5
Food Manufacturing	311	8	6	76	-2	-25.0	-12.2	-10.0
Wood Product Manufacturing	321	19	15	32	-4	-21.1	-5.8	-9.9
Printing and Related Support Activities	323	7	6	23	-1	-14.3	-16.5	-22.8
Nonmetallic Mineral Product Manufacturing	327	5	4	84	-1	-20.0	22.8	5.8
Fabricated Metal Product Manufacturing	332	8	12	105	4	50.0	9.1	-2.6
Miscellaneous Manufacturing	339	5	4	7	-1	-20.0	18.0	-3.5
Merchant Wholesalers, Durable Goods	423	29	33	12	4	13.8	38.5	-1.8
Merchant Wholesalers, Nondurable Goods	424	40	30	15	-10	-25.0	13.3	-0.6
Wholesale Electronic Markets and Agents and Brokers	425	23	12	7	-11	-47.8	49.5	52.3
Motor Vehicle and Parts Dealers	441	61	56	9	-5	-8.2	1.6	3.0
Furniture and Home Furnishings Stores	442	21	18	8	-3	-14.3	1.3	4.6

Orangeburg County								
Industry	NAICS Code	1997	2007	Average Size	Change		SC % Change	US % Change
					#	%		
Electronics and Appliance Stores	443	15	8	5	-7	-46.7	-3.5	-5.4
Building Material and Garden Equipment and Supplies Dealers	444	33	33	14	0	0.0	-5.3	-4.8
Food and Beverage Stores	445	50	43	32	-7	-14.0	-12.9	-1.9
Health and Personal Care Stores	446	28	33	10	5	17.9	17.1	11.3
Gasoline Stations	447	62	50	17	-12	-19.4	14.9	-5.3
Clothing and Clothing Accessories Stores	448	46	43	10	-3	-6.5	-2.3	-2.3
Sporting Goods, Hobby, Book, and Music Stores	451	15	11	8	-4	-26.7	-4.6	-12.5
General Merchandise Stores	452	26	39	25	13	50.0	38.1	26.9
Miscellaneous Store Retailers	453	43	33	5	-10	-23.3	-11.7	-8.9
Nonstore Retailers	454	14	12	5	-2	-14.3	-16.8	15.4
Truck Transportation	484	39	44	13	5	12.8	24.1	12.4
Warehousing and Storage	493	6	10	5	4	66.7	6.4	18.6
Telecommunications	517	6	9	25	3	50.0	42.0	43.7
Credit Intermediation and Related Activities	522	45	58	13	13	28.9	49.3	49.4
Real Estate	531	34	30	5	-4	-11.8	57.5	34.2
Professional, Scientific, and Technical Services	541	89	102	5	13	14.6	43.3	38.3
Management of Companies and Enterprises	551	9	6	3	-3	-33.3	137.5	43.6
Educational Services	611	6	11	55	5	83.3	61.6	51.9
Ambulatory Health Care Services	621	97	110	9	13	13.4	28.6	19.8
Nursing and Residential Care Facilities	623	20	49	20	29	145.0	30.0	24.4
Social Assistance	624	34	29	0	-5	-14.7	15.5	51.6

Orangeburg County								
Industry	NAICS Code	1997	2007	Average Size	Change		SC % Change	US % Change
					#	%		
Accommodation	721	30	34	17	4	13.3	16.7	12.6
Food Services and Drinking Places	722	111	121	24	10	9.0	21.0	18.8
Repair and Maintenance	811	84	65	4	-19	-22.6	-3.2	1.6
Personal and Laundry Services	812	44	39	5	-5	-11.4	15.8	8.7
Religious, Grantmaking, Civic, Professional, and Similar Organizations	813	10	9	4	-1	-10.0	-3.3	8.9
Private Households	814	108	93	1	-15	-13.9	4.0	78.9

growth rate exceeds both SC and US growth rates

Source: Bureau of Labor Statistics.

Appendix C: Orangeburg County Employment by Industry Sector

Industry	NAICS code	Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
		1997	2007	#	%				
Total		32,487	33,671	1,184	3.6			30,688	

<i>6 star sectors</i>									
Industry	NAICS code	Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
		1997	2007	#	%				
Fabricated metal product manufacturing	332	1,028	1,262	234	22.8	3.5	329	40,823	AA
Truck transportation	484	251	557	306	121.9	1.67	280	35,482	A

<i>5 star sectors</i>									
Industry	NAICS code	Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
		1997	2007	#	%				

Sectors with only below-average wages

Building material and garden supply stores	444	263	452	189	71.9	1.49	122	28,289	A
Health and personal care stores	446	221	316	95	43.0	1.37	58	29,742	AA
Gasoline stations	447	624	855	231	37.0	4.28	280	15,376	A
Food services and drinking places	722	2,133	2,855	722	33.8	1.29	210	11,318	A

Sector with only employment change below 50

Nonmetallic mineral product manufacturing	327	302	334	32	10.6	2.88	50	63,508	A
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Sector with only location quotient below 1.25

Ambulatory health care services	621	707	937	230	32.5	0.74	3	44,547	AA
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4 star sectors		Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	1997	2007	#	%				
Crop production	111	265	457	192	72.5	3.65	209	23,718	BA
Forestry and logging	113	179	143	-36	-20.1	9.39	12	32,910	A
General merchandise stores	452	835	964	129	15.4	1.37	17	15,442	BA
Credit intermediation and related activities	522	550	743	193	35.1	1.12	92	38,353	BA
Educational services	611	439	601	162	36.9	1.13	-32	32,862	AA

3 star or fewer sectors		Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	1997	2007	#	%				
Animal production	112	83	91	8	9.6	1.76	-11	35,209	BA
Clothing and clothing accessories stores	448	302	422	120	39.7	1.21	56	13,129	BA
Telecommunications	517	131	228	97	74.0	0.95	100	28,743	BA
Insurance carriers and related activities	524	89	103	14	15.7	0.21	7	40,289	BA
Real estate	531	119	148	29	24.4	0.43	3	26,066	AA
Utilities	221	138	141	3	2.2	1.10	19	61,201	BA

3 star or fewer sectors		Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	1997	2007	#	%				
Construction of buildings	236	637	358	-279	-43.8	0.87	-466	40,671	A
Food manufacturing	311	603	453	-150	-24.9	1.32	-120	41,320	BA
Wood product manufacturing	321	874	480	-394	-45.1	4.02	-275	40,101	D
Printing and related support activities	323	141	138	-3	-2.1	0.96	32	38,048	BA
Merchant wholesalers, durable goods	423	444	393	-51	-11.5	0.54	-89	33,795	AA
Merchant wholesalers, nondurable goods	424	423	445	22	5.2	0.93	-17	29,610	A
Food and beverage stores	445	1,418	1,378	-40	-2.8	2.08	-3	21,224	A
Sporting goods, hobby, book and music stores	451	60	90	30	50.0	0.59	28	12,057	BA
Professional and technical services	541	734	492	-242	-33.0	0.28	-482	41,916	A
Nursing and residential care facilities	623	989	961	-28	-2.8	1.41	-229	21,064	AA
Agriculture and forestry support activities	115	71	49	-22	-31.0	0.64	-21	57,558	D
Heavy and civil engineering construction	237	205	81	-124	-60.5	0.35	-167	30,723	BA
Specialty trade contractors	238	836	549	-287	-34.3	0.49	-590	25,481	A
Electronic markets and agents and brokers	425	103	79	-24	-23.3	0.41	-53	42,100	BA
Motor vehicle and parts dealers	441	521	494	-27	-5.2	1.12	-77	31,037	BA
Electronics and appliance stores	443	65	42	-23	-35.4	0.33	-28	32,997	BA

3 star or fewer sectors		Employment		1997-2007 Change		Location Quotient	Competitive Effect	2007 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	1997	2007	#	%				
Nonstore retailers	454	71	61	-10	-14.1	0.61	-7	32,567	BA
Warehousing and storage	493	68	52	-16	-23.5	0.34	-43	43,057	BA
Administrative and support services	561	1,403	970	-433	-30.9	0.52	-765	16,020	A
Performing arts and spectator sports	711	78	86	8	10.3	0.91	-3	19,942	A
Amusements, gambling, and recreation	713	227	203	-24	-10.6	0.61	-66	13,321	A
Accommodation	721	583	571	-12	-2.1	1.32	-53	10,796	A
Repair and maintenance	811	270	239	-31	-11.5	0.82	-45	25,887	A
Personal and laundry services	812	303	191	-112	-37.0	0.63	-141	18,214	A
Private households	814	135	126	-9	-6.7	0.99	-66	9,102	A
Furniture and related product manufacturing	337	NA	75			0.61		28,489	BA
Miscellaneous manufacturing	339	90	29	-61	-67.8	0.19	-49	26,992	BA
Furniture and home furnishings stores	442	223	136	-87	-39.0	1.02	-126	21,396	BA
Miscellaneous store retailers	453	293	158	-135	-46.1	0.78	-118	22,234	BA

Methodology and Sourcing

AA=above average

A=average

BA=below average

D=decline

Sectors are rated on 6 factors: 1997-2007 employment growth, 1997-2007 employment growth rate, location quotient, competitive effect, average annual wage, and projected growth.

Stars are based on: 1997-2007 employment growth of 100 or more, 1997-2007 employment growth rate greater than 3.6% (change for total employment in Orangeburg County), location quotient of at least 1.25, competitive effect greater than 0, average annual wage greater than \$30,688 (2007 average for all jobs in Orangeburg County), and average or above average projected growth.

Location Quotient: percentage of employment in the sector in Orangeburg County divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in Orangeburg County; based on 2007 data.

Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in Orangeburg County after accounting for overall US employment growth and growth/decline in the sector in the US.

Source: Bureau of Labor Statistics; projections based on data from EMSI and SC Department of Commerce



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